



About the Management Center REST API

The management center REST API provides a lightweight API to manage a management center.

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About the Management Center REST API

The REST API is an application programming interface (API), based on “RESTful” principles, which you can quickly enable on any management center running version 6.1 or higher, and use with a REST client.

After installing a REST client, you can contact the specific management center's REST agent and use standard HTTP methods to access current configuration information, and issue additional configuration parameters.

Whats New in 7.1

The following new features and functionality were added in version 7.1.

- Added error
401 Invalid Session
- Added error
429 Too Many Writes
- Removed biased terminology from field names and descriptions
- Added the following new sections in API Explorer:
 - Troubleshoot
 - Network Map
 - Chassis

New API endpoints and Methods

Table 1: New Endpoints: these are new endpoints and methods.

Name	Methods	URL
Troubleshoot		
Packet Tracer Files	DELETE, DELETE by ID	/api/fmc_troubleshoot/v1/cbrain/{cbrainUID}/packettracer/files/
Network Map		
Netmap Hosts	GET, GET by ID, POST, DELETE	/api/fmc_netmap/v1/cbrain/{cbrainUID}/hosts/{objectId}
Vulns	GET, GET by ID, POST, DELETE	/api/fmc_netmap/v1/cbrain/{cbrainUID}/vulns/
Users		
Duo Configs	GET, GET by ID, PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/users/duoconfigs/
Deployment Services		
Job Histories	GET, GET by ID, PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/deployer/jobhistories
Download Reports	GET	/api/fmc_config/v1/cbrain/{cbrainUID}/jobhistories/{objectId}/getreport/
Email Reports	POST	/api/fmc_config/v1/cbrain/{cbrainUID}/jobhistories/{objectId}/getreport/emailreports
Device Clusters		
Threat Defense Cluster Readiness Check	POST	/api/fmc_config/v1/cbrain/{cbrainUID}/threatdefense/clusterreadinesscheck
Threat Defense Cluster Device Commands	POST	/api/fmc_config/v1/cbrain/{cbrainUID}/threatdefense/clusterdevices/{objectId}/getreport/clusterdevicecommands
Health Services		
Tunnel Statuses	GET	/api/fmc_config/v1/cbrain/{cbrainUID}/health/tunnelstatuses
Tunnel Summaries	GET	/api/fmc_config/v1/cbrain/{cbrainUID}/health/tunnelsummaries
Chassis		
Management Center Managed Chassis	GET, GET by ID	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis
Network Modules	GET, GET by ID, PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis/{objectId}/networkmodules
Sync Network Module	PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis/{objectId}/networkmodules/syncnetworkmodule
Chassis Interfaces	GET, GET by ID	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis/{objectId}/chassisinterfaces
Device Services		

Name	Methods	URL
ECMP Zones	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/ecmpzones
Virtual ECMP Zones	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/virtualzones
Packet Tracer	POST	/api/config/v1/chain/{chainID}/zones/{zoneID}/packettracer
Packet Tracer PCAP	POST	/api/config/v1/chain/{chainID}/zones/{zoneID}/packettracerpcap
Policy Based Routes	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/policybasedroutes
Virtual Policy Based Routes	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/virtualpolicybasedroutes
VTEP Policies	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/vteppolicies
VNI Interfaces	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/vnifaces
Threat Defense All Interfaces	GET	/api/config/v1/chain/{chainID}/zones/{zoneID}/threatdefense
Integration		
Dynamic Attributes Feeds	GET, PUT	/api/config/v1/chain/{chainID}/integration/dynamicattributesfeeds
Object		
Anyconnect External Browser Packages	GET, GET by ID	/api/config/v1/chain/{chainID}/object/anyconnectexternalbrowserpackages
Bulk Dynamic Objects	POST	/api/config/v1/chain/{chainID}/object/bulldynamicobjects
Extended Community Lists	GET, GET by ID, GET overrides, GET overrides by ID, OUT, POST, DELETE	/api/config/v1/chain/{chainID}/object/extendedcommunitylists
Packet Tracer PCAP List	GET	/api/config/v1/chain/{chainID}/object/packettracerpcaplist
Packet Tracer PCAP Upload	POST	/api/config/v1/chain/{chainID}/object/packettracerpcapupload
Updates		
Revert Upgrades	POST	/api/platform/v1/updates/revertupgrades

New Methods for existing endpoints

Table 2: New Methods for Existing Endpoints: these provide additional functionality for existing endpoints

Name	Methods	URL
Device Clusters		
Threat Defense Device Cluster (existing)	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/threat-defense/device-cluster/{object}
Device Services		
BGP	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/devices/services/{containerUID}/routing/bgp
BGP General Settings	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/devices/services/{containerUID}/routing/generalsettings
Object		
AS Path Lists (existing)	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/aspathlists
Expanded Community Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/expandedcommunitylists
Extended Access Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/extendedaccesslists
IPv4 Prefix Lists (existing)	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/ipv4prefixlists
IPv6 Prefix Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/ipv6prefixlists
Policy Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/policyslists
Route Maps	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/routemaps
Standard Access Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/standardaccesslists
Standard Community Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUID}/object/standardcommunitylists

Whats New in 7.2

No new features or functionality were added in version 7.2.

New API endpoints and Methods

Table 3: New Methods and Endpoints:

Name	Methods	URL
Chassis		
Evaluate Operation	GET	/api/fmc_config/v1/domain/{domainUID}/chassis/fmcmanagedchassis/{containerUID}/chassisinterfaces/{interfaceUID}/evaluateoperation
Breakout Interfaces	POST	/api/fmc_config/v1/domain/{domainUID}/chassis/fmcmanagedchassis/{containerUID}/operational/breakoutinterfaces

Name	Methods	URL
Join Interfaces	POST	/api/fmc_config/v1/domain/{domainUUID}/chassis/fmcmanagedchassis/{containerUUID}/operational/joininterfaces
Deployment		
Download Reports	GET	/api/fmc_config/v1/domain/{domainUUID}/deployment/jobhistories/{containerUUID}/operational/downloadreports
Email Reports	GET	/api/fmc_config/v1/domain/{domainUUID}/deployment/jobhistories/{containerUUID}/operational/emailreports
Devices		
EIGRP Routes	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/devices/devicerecords/{containerUUID}/routing/eigrproutes
Virtual EIGRP Routes	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/devices/devicerecords/{containerUUID}/routing/virtualrouters/{virtualrouterUUID}/eigrproutes
Device Settings	GET, PUT	/api/fmc_config/v1/domain/{domainUUID}/devices/devicesettings
Change Managers	POST	/api/fmc_config/v1/domain/{domainUUID}/devices/operational/changemanagers
Integration		
EBS Snapshot	GET by ID, POST	/api/fmc_config/v1/domain/{domainUUID}/integration/ebssnapshot
Test Umbrella Connections	POST	/api/fmc_config/v1/domain/{domainUUID}/integration/operational/testumbrellaconnections
Umbrella Connections	GET, GET by ID, PUT, POST	/api/fmc_config/v1/domain/{domainUUID}/integration/umbrellaconnections
Status		
Task Statuses	GET	/api/fmc_config/v1/domain/{domainUUID}/job/taskstatuses
Object		
AnyConnect External Browser Packages	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/anyconnectexternalbrowserpackages

Name	Methods	URL
AnyConnect Packages	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ anyconnectpackages
AnyConnect Profiles	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ anyconnectprofiles
Certificate Enrollments	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ certenrollment
Certificate Maps	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ certificatemaps
Group Policies	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ grouppolicies
Host Scan Packages	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ hostscanpackages
IPv4 Address Pools	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ ipv4addresspools
IPv6 Address Pools	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ ipv6addresspools
Umbrella Protection Policies	GET, POST	/api/fmc_config/v1/domain/{domainUUID}/object/ operational/umbrellaprotectionpolicies
Radius Server Groups	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ radiusservergroups
SSO Servers	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/ ssoservers
Policy		
Auto NAT Rules	PUT, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ ftdnatpolicies/{containerUUID}/autonatrules
Manual NAT Rules	PUT, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ ftdnatpolicies/{containerUUID}/manualnatrules

Name	Methods	URL
NAT Rules	DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ftdnatpolicies/{containerUUID}/natrules
Health Policies	GET, GET by ID	/api/fmc_config/v1/domain/{domainUUID}/policy/healthpolicies
Policy Locks	GET, POST	/api/fmc_config/v1/domain/{domainUUID}/policy/operational/policylocks
RA VPNs	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns
Address Assignment Settings	PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/addressassignmentsettings/{objectId}
Certificate Map Settings	PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/certificatemapsettings/{objectId}
Connection Profiles	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/connectionprofiles
IPSec Advanced Settings	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/ipsecadvancedsettings
IPSec Crypto Maps	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/ipseccryptomaps
LDAP Attribute Maps	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ravpns/{containerUUID}/ldapattributemaps
S2S VPN Summaries	GET	/api/fmc_config/v1/domain/{domainUUID}/policy/s2svpnsummaries
Umbrella DNS Policies	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/policy/umbrelladnspolicies
Umbrella DNS Rules	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/umbrelladnspolicies/{containerUUID}/umbrelladnsrules
Search		
Device	GET	/api/fmc_config/v1/domain/{domainUUID}/search/device

Name	Methods	URL
License		
Device Licenses	GET, GET by ID, PUT, PUT by ID	/api/fmc_platform/v1/license/ devicelicenses
Smart Licenses	GET, POST	/api/fmc_platform/v1/license/ smartlicenses
Updates		
Upgrade Snapshot	POST	/api/fmc_platform/v1/updates/ upgradesnapshot
Troubleshoot		
Task	POST	/api/fmc_troubleshoot/v1/domain/ {domainUUID}/task



Note Spaces have been added to the URLs to aid in readability. When using the URLs, remove the spaces.

What's New in 7.3

Backup section has been added in 7.3.

New API endpoints and Methods

Table 4: New Methods and Endpoints:

Name	Methods	URL
Backup		
Device Backup	POST	/api/fmc_config/v1/domain/{domainUUID}/backup/ operational/devicebackup
Download Backup	GET, GET by ID	/api/fmc_config/v1/domain/{domainUUID}/backup/ downloadbackup/{targetId}
Backup Files	GET, GET by ID, DELETE	/api/fmc_config/v1/domain/{domainUUID}/ backup/files
Chassis		

Name	Methods	URL
Chassis Physical Interface	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/chassis/fmcmanagedchassis/{containerUUID}/physicalinterfaces
Devices		
Bi-Directional Forwarding Policies	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/devices/devicerecords/{containerUUID}/routing/virtualrouters/{virtualrouterUUID}/bfdpolicies
Loopback Interfaces	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/devices/devicerecords/{containerUUID}/loopbackinterfaces
Device Clusters		
Cluster Health Monitor Settings	GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/deviceclusters/ftddevicecluster/{containerUUID}/clusterhealthmonitorsettings/{clusterUuid}/{object_UUID}
Health		
Remote Access VPN Gateways	GET, GET by ID	/api/fmc_config/v1/domain/{domainUUID}/health/ravpngateways
Terminate VPN Sessions	POST	/api/fmc_config/v1/domain/{domainUUID}/health/ravpnsessions/operational/terminateravpnsessions
Cisco Secure Dynamic Attributes Connector	GET, POST	/api/fmc_config/v1/domain/{domainUUID}/health/csdac
Path Monitored Interfaces	GET	/api/fmc_config/v1/domain/{domainUUID}/health/pathmonitoredinterfaces
Integration		
Tunnel Deployments	GET, POST	/api/fmc_config/v1/domain/{domainUUID}/integration/umbrella/tunneldeployments/{objectId}
Tunnel Transcripts	GET by ID	/api/fmc_config/v1/domain/{domainUUID}/integration/umbrella/tunneldeployments/{containerUUID}/transcripts/{objectId}
Data Centers	GET	/api/fmc_config/v1/domain/{domainUUID}/integration/umbrella/datacenters

Name	Methods	URL
Umbrella Transcripts	GET by ID	/api/fmc_config/v1/domain/{domainUUID}/integration/umbrella/tunneldeployments/{containerUUID}/transcripts/{objectId}/{object_UUID}
Object		
Bi-Directional Forwarding Templates	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/bfdtemplates
DHCP IPv6 Pools	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/dhcpipv6pools/{objectId}
Download Internal CA	POST	/api/fmc_config/v1/domain/{domainUUID}/object/downloadinternalca
Internal Certificate Authorities	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/internalcas
Internal Certificates	GET, GET by ID, PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/internalcertificates
Security Group Tags	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/securitygrouptags
SI URL Lists	PUT, POST, DELETE	/api/fmc_config/v1/domain/{domainUUID}/object/siurllists
Validate Certificate File	POST	/api/fmc_config/v1/domain/{domainUUID}/object/validatecertfile
Policy		
Flex Config Policies	GET, GET by ID, POST	/api/fmc_config/v1/domain/{domainUUID}/policy/flexconfigpolicies

Name	Methods	URL
FTD Platform Settings	GET, GET by ID	/api/fmc_config/v1/domain/{domainUUID}/policy/ ftdplatformsettingspolicies
Load Balance Settings	GET, GET by ID, PUT	/api/fmc_config/v1/domain/{domainUUID}/policy/ ravpns/{containerUUID}/loadbalancesettings
Flexconfig Migration	POST	/api/fmc_config/v1/domain/{domainUUID}/policy/ flexconfigpolicies/{containerUUID}/migrate



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Enabling the REST API

In management center, the REST API is enabled by default. However, if you are intending to use the REST API, you should confirm that it is enabled.



Note If you are using UCAPL mode, check that the REST API is not enabled.

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- Step 1** Navigate to the gear icon for the System menu. Under that menu select `Configuration` and then `REST API Preferences`.
- Step 2** Check the box marked `Enable REST API`.
- Step 3** Click "Save". A "Save Successful" dialog will display when the REST API is enabled.
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Best Practices

Cisco recommends the following best practices for optimal results with the REST API:

- Keep UI users and API users separate when possible. Especially do not use an admin account as an API user unless specifically necessary.
- Do not give API users more privilege than needed.
- Always validate the content coming from the server.
- Validate/sanitize JSON content, as it may include embedded executable code.
- If you are using CC or UCAPL mode you should disable REST API access to the management center and managed devices.

Additional Resources

Additional resources for the management center REST API can be found on Cisco DevNet at <https://developer.cisco.com/firepower/>.